

12/8/2008 10/722,597

CAS/STN

FILE 'PCT' ENTERED AT 13:36:02 ON 08 DEC 2008
E US20040104468/PN
1 SEA ABB=ON PLU=ON US20040104468/PN
D ALT
E JP07286788/PN.D
7 SEA ABB=ON PLU=ON JP07286788/PN.D
FILE 'STNGUIDE' ENTERED AT 13:36:44 ON 08 DEC 2008
FILE 'PCT' ENTERED AT 13:37:13 ON 08 DEC 2008
E US6631077/PN
1 SEA ABB=ON PLU=ON US6631077/PN
SEL PLU=ON L3 1- PN : 2 TERMS
20 SEA ABB=ON PLU=ON L4/PN.D
D L3 B1B
7 SEA ABB=ON PLU=ON L2 NOT L1
D ALT TOT

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SYSTEM:08 - DIALOG OneSearch

File 2:INSPEC 1898-2008/Nov W2

File 6:NTIS 1964-2008/Nov W5

File 8:EI Compendex(R) 1884-2008/Nov W4

File 23:CSA Technology Research Database 1963-2008/Nov

File 14:Mechanical and Transport Engineer Abstract 1966-2008/oct

File (c) 2008 CSA.

File (c) 2008 CSA.

Set Items Description

S1 2248 (BOL)???? OR NUCLEAT???? OR SONICAT???? OR BUBBL???? OR

VIBRAT???? OR RESON???? OR OSCILLAT???? OR RESISTORS ? (4-

N)DRIV???? (4N) (LIQ OR LIQUID ? OR OIL OR WATER OR AQ OR AQUE-

OUS OR H2O OR FLUID ?)

S2 13 (ELECTRORESIST???? OR ELCTRIC???? OR OIL OR WATER OR AQ OR AQUEOUS OR

H2O OR FLUID ?)

S3 5982 (WITHOUT OR NO OR REM???) (W)MOVING() (PART OR PARTS)

S4 115372 (MOTION?? OR MOV???? OR MOTIV???? OR DRIV???? (4N) (LIQ OR

LIQUID ? OR OIL OR WATER OR AQ OR AQUEOUS OR H2O OR FLUID ? -

S5 121172 (MOTION?? OR MOV???? OR MOTIV???? OR DRIV???? (4N) (LIQ OR

LIQS OR WORKING OR LIQUID ? OR OIL OR WATER OR AQ OR AQUEOUS

S6 127505 S1:S5 OR H2O OR FLUID ?)

S7 121735 S6 AND (S1:S4 OR 'COOLING' OR 'THERMAL MANAGEMENT' (PACKAGI-

S8 444 S6 AND COOLER

S9 858 S6 AND COOLANT

S10 510 S6 AND COOLANTS

S11 1817 S6 AND COOLED

S12 4603 S6 AND COOLING

S13 4 S6 AND HEAT/SINK????

S14 10340 S6 AND (HEAT???? OR THERMAL??) (2N) (SINK???? OR TRANSFER???

S15 212 S6 AND (HEAT???? OR THERMAL??) (2N) (MANAG????

OR DISSIPAT???? OR REMOV????)

S16 1820 S6 AND (HEAT???? OR THERMAL??) (2N) EXCHANG????

S17 621 S6 AND (HEAT???? OR THERMAL??) (2N) DIFFUS????

S18 6742 S6 AND COOL????

S19 17 S6 AND HOTSPOT??

S20 97 S6 AND HOT(?)SPOT????

S21 5408 S6 AND LOCAL????

S22 678 S6 AND (HOMOGENE???? OR UNIFORM???? OR CONSISTENT OR

CONSTANT) (2N) (TEMP OR TEMPS OR TEMPERATURE??)

S23 122047 S7:S22

S24 729 S23 AND NUCLEAT????

S25 1871 S23 AND BOL????

S26 3951 S23 AND BUBBL????

S27 0 S23 AND FLATUS

S28 0 S23 AND FLATUS?

S29 0 S23 AND PLATI

S30 79 S23 AND MICROBUBBL????

S31 26 S23 AND SONICAT????

S32 5445 S23 AND VIBRA????

S33 4040 S23 AND PULS????

Dialog
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585	181	SEMICONDUCT????? AND S81:S82
586	16	MONOLITH????? AND S81:S82
587	0	S85 AND PIERCE
588	11	S85 AND COMPACT
589	0	S85 AND UNIBODY
590	20	S85 AND SINGLE
591	18	S85 AND ONE
592	133	S80:S80 OR S83 OR S86:S91
593	97	RD S92 (unique items)
594	97	S93 NOT S86
595	50	S94 NOT S94/2003-2008
596	2	S95 AND MEMS
597	0	S95 AND MEM
598	4	S95 AND MICROMACH?
599	2	S95 AND MICROMACH?
600	0	S95 AND MICROELECTROMECH?
601	0	S95 AND ELECTROMECH?
602	0	S95 AND NUCLEAT?????
603	1	S95 AND BOIL?????
604	1	S95 AND VIBRAT?????
605	1	S95 AND BUBBL?????
606	0	S95 AND MICROBUBBL?????
607	5	S95 AND DRIV?????
608	0	S95 AND MOVER??
609	12	S96:S108
610	6227	(NO OR WITHOUT) (2M) MOVING () PARTS
611	1179	S41 AND S10
612	9	S11 AND MONOLITH?????
613	79	S11 AND COMPACT
614	85	S12:S113
615	60	RD S114 (unique items)
616	58	S15 NOT (S109 OR S66)
617	0	S16 AND MICROCHIP??
618	3	S16 AND CHIP??
619	5	S16 AND SEMICONDUCT?????
620	1	S16 AND MICROELECTRONIC??
621	2	S16 AND CI-S1
622	0	S16 AND MULTICHIP?
623	0	S16 AND CHIPSCAL?
624	0	S16 AND CSP
625	0	S16 AND MCM
626	0	S16 AND MCP
627	12	S16 AND PACKAG?????
628	18	S18:S127
629	9	S128 NOT S128/2003-2008
630	11239	SEMICONDUCT????? (2N) PACKAG?????
631	30	S130 AND BUBBL?????
632	1	S130 AND MICROBUBBL?????
633	22	S130 AND BOIL?????
634	20	S130 AND NUCLEAT?????
635	152	S130 AND RESISTOR??
636	9	S130 AND (RESISTANCE??
637	4	S130 AND (RESISTANCE??
638	3	S130 AND (RESISTANCE??
639	0	S130 AND (RESISTANCE??
640	0	S130 AND (RESISTANCE??
641	2	S130 AND (RESISTANCE??
642	4	S130 AND (RESISTANCE??
643	12	S131:S141 AND FLUID??
644	12	S131:S141 AND COOLANT
645	4	S131:S141 AND COOLANTS
646	21	S131:S141 AND LIQUID
647	2	S131:S141 AND LIQUIDS

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Sheet
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S147	1	S131:S141 AND OIL
S148	0	S131:S141 AND OILS
S149	2	S131:S141 AND WORKING
S150	7	S131:S141 AND WATER
S151	0	S131:S141 AND H2O
S152	0	S131:S141 AND AQ
S153	1	S131:S141 AND AQUEOUS
S154	1	S131:S134 AND S135
S155	6	S131:S134 AND VOL/TAGB??
S156	8	S131:S134 AND RESISTANCE??
S157	1	S131:S134 AND RESISTIVITY???????
S158	7	131AND134
S159	6	131AND133
S160	8	134AND133
S161	0	S130 AND MICRO() BUBBL????
S162	65	S132 OR S136:S161
S163	51	RD S162 (unique items)
S164	37	S163 NOT S163/2003-2008 OR S66)
S165	37	S164 NOT (S129 OR S109 OR S66)
S166	15	S165 AND COOL???????
S167	0	S165 AND MICROCOOL???????
S168	19	S165 AND HEAT???????
S169	17	S165 AND THERMAL??
S170	1	S165 AND HOT???????
S171	3	S165 AND COLD???????
S172	25	S166:S171

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FILE 'PCI' ENTERED AT 15:41:05 ON 08 DEC 2008
E JP07243738/PN.D
E JP7243738/PN.D
E JP07243738/PN.D
1 SEA ABB=ON PIU=ON JP07243738/PN.D
D ALT

COS/STN

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EAST Search History

#	Ref	Hits	Search Query	Dbs	Default Operator	Plurals	Time Stamp
L1		1	"20040104468"	DERWENT	OR	OFF	2008/12/08 08:35
L2		3370	U11-D02D1\$	EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/08 08:36
L3		1741	V04-T03H\$	EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/08 08:36
L4		28337	h01123/34\$	EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/08 08:37
L5		2429	h011023/34\$	EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/08 08:37
L6		1931	h011023/473\$	EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/08 08:37
L7		3601	h01123/473\$	EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/08 08:37
L8		45682	h01121/822\$	EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/08 08:37
L9		18062	h011021/822\$	EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/08 08:37
L10		2429	h011023/34\$	EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/08 08:38
L11		28337	h01123/34\$	EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/08 08:38
L12		3123	h01123/427\$	EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/08 08:38
L13		1554	h011023/427\$	EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/08 08:38
L14		1931	h011023/473\$	EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/08 08:38
L15		3601	h01123/473\$	EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/08 08:38

EAST Search History

L16	42680	h01L27/04\$	EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/08 08:38
L17	33314	h01L027/04\$	EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/08 08:38
L18	24615	u11-d02\$	EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/08 08:42
L19	102404	(heat\$5 or cool\$6) near1 (pipe or path\$6 or plenum or duct\$6 or piping or channel\$5 or passag\$5 or line)	EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/08 08:44
L21	769869	heatsink or cooler or cooling	EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/08 08:50
L22	42666	heat adj sink\$4	EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/08 08:50
L23	752376	(heat\$4 or thermal\$2) near2 (dissipat\$5 or remov\$5 or transfer\$5 or conduct\$5 or device or plate or slab or element or coil or equipment or apparatus or means or hardware or module or fin or fins)	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 08:52
L24	206422	cooler or (cool\$4 near1 (system or device or plate or slab or element or coil or equipment or apparatus or means or hardware or module or fin or fins))	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 08:54
L25	268162	aircool\$4 Or watercool\$4 Or gascool\$4 Or ((gas\$4 or liquid or liq or fluid\$2 or air or cryogen\$2\$2 Or water) near1 (cool\$4))	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 08:55
L26	529	hotspot	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 08:56
L27	529	hotspot\$5	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 08:56
L28	4232	hot adj spot\$5	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 08:56
L29	17077	local\$7 near2 (temp or temperature or heat\$6 or hot\$5 or cold\$5 or cool\$5)	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 08:57

FAST Search History

L30	69159	(homogen\$8 or uniform\$6) near2 (temp or temperature or heat\$6 or hot\$5 or cold\$5 or cool\$5 or thermal\$2)	EPQ; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 08:57
L32	45127	heat\$5 near3 transfer\$5 near3 (fluid\$6 or flow\$5 or gas\$5 or vapor\$5 or vapour\$5 or water or h2o or oil or aq or aqueous or plate or medium or material or liq or liquid or driv\$5 or driving)	EPQ; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/08 08:59
L33	9	heat\$spread\$5	DERWENT	OR	OFF	2008/12/08 09:02
L34	2631	heat\$5 near1 spread\$5	DERWENT	OR	OFF	2008/12/08 09:02
L35	998235	L2 L3 L4 L5 L6 L7 L8 L9 L10 L11 L12 L13 L14 L15 L16 L17 L18 L19 L21 L21 L22 L23 L24 L25 L26 L27 L28 L29 L30 L32 L33 L34	DERWENT	OR	OFF	2008/12/08 09:04
L36	1794	L35 and comb	DERWENT	OR	ON	2008/12/08 09:16
L37	6	L35 and comblike	DERWENT	OR	ON	2008/12/08 09:16
L38	0	L35 and coxcomb\$6	DERWENT	OR	ON	2008/12/08 09:16
L39	7	L35 and coxcomb\$6	DERWENT	OR	ON	2008/12/08 09:16
L40	306	L35 and intercals\$7	DERWENT	OR	ON	2008/12/08 09:17
L41	1488	L35 and maz\$4	DERWENT	OR	ON	2008/12/08 09:17
L42	2752	L35 and monolith\$6	DERWENT	OR	ON	2008/12/08 09:17
L43	2771	L35 and integrat\$5 near1 (plate or heat\$8 or hot\$7 or cool\$5 or cold\$7 or thermal\$2)	DERWENT	OR	ON	2008/12/08 09:18
L44	12	L35 and unibody	DERWENT	OR	ON	2008/12/08 09:18
L45	1	L35 and uni adj body	DERWENT	OR	ON	2008/12/08 09:19
L47	19730	L35 and (one or single or "same" or identical\$4) near2 (piece or body or material or slab or plate or construct\$6 or chip or microchip or si or silicon)	EPQ; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/08 09:21
L48	1668	L35 and together near2 (piece or body or material or slab or plate or construct\$6 or chip or microchip or si or silicon)	EPQ; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/08 09:21
L49	40676	L35 and (fit or fit\$6)	EPQ; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 09:21
L50	1757	L35 and intimat\$7	EPQ; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 09:22

EAST Search History

L51	3959	L35 and touch\$6	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 09:22
L52	12736	L35 and contact\$5 near2 (each or other or "both" or together or layer or chip or microchip or film or die or dies or hotplate or plate or (sl or silicon) adj substrate))	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 09:23
L53	2253	L35 and against near2 (each or other or "both" or together or layer or chip or microchip or film or die or dies or hotplate or plate or (sl or silicon) adj substrate))	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 09:24
L54	245	L35 and project\$6 near2 vertical\$2 (silicon) adj substrate))	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 09:24
L55	575	L35 and project\$5 near2 (pillar\$5 or post\$5 or column\$5 or upward\$5 or "up" or comb or comblike or coxcomb\$5 or cockscomb\$6 or intercalat\$6)	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 09:25
L56	3	"07286788" or "6631077"	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 09:26
L57	69839	(fluid or liq or liquid or vapor or vapour) near4 (vibrat\$5 or bubb\$5 or eddies or eddy or eddled or eddies or disturb\$6 or oscillat\$5 or puls\$7 or resona\$7)	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 09:51
L58	34238	liquid or coolant) (operating or working) adj (fluid or	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 09:52
L59	3288	L35 and bump\$6	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 09:52
L60	1016	L35 and stepwise	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 09:52
L61	142	L35 and step adj wise	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 09:53
L62	13789	L35 and resistor	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 09:53
L63	7494	L35 and L57	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 09:53

FAST Search History

L64	5722	L35 and L58	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 09:53
L65	115430	L36 L37 L38 L39 L40 L41 L42 L43 L44 L45 L47 L48 L49 L50 L51 L52 L53 L54 L55 L59 L60 L61 L62 L63 L64	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 09:56
L66	708	L65 and L2	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 09:56
L67	412	L65 and L3	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 09:56
L68	5243	L65 and L4	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 09:57
L69	0	L65 and L5	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 09:57
L70	0	L65 and L6	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 09:57
L71	595	L65 and L7	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 09:57
L72	7505	L65 and L8	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 09:57
L73	0	L65 and L9	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 09:57
L74	0	L65 and L10	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 09:57
L75	5243	L65 and L11	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 09:58
L76	715	L65 and L12	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 09:58
L77	0	L65 and L13	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 09:58
L78	0	L65 and L14	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 09:58

EAST Search History

L79	595	L65 and L15	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 09:58
L80	7030	L65 and L16	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 09:58
L81	0	L65 and L17	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 09:58
L82	4419	L65 and L18	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 09:58
L83	2886	L35 and (seal\$5 or clos\$5) near3 (circuit\$5 or loop\$5) near3 (heat\$5 or cool\$5)	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 10:00
L84	293	L35 and (seal\$5 or clos\$5) near3 (circuit\$5 or loop\$5) near3 (hot\$6 or cold\$6 or thermal\$2)	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 10:00
L85	305	L35 and (seal\$5 or clos\$5) near3 (circuit\$5 or loop\$5) near3 (temp or temperatur\$5)	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 10:00
L86	5031	L35 and (working or operating) adj fluid	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 10:01
L87	18994	L35 and (pump\$5 or driv\$5 or mov\$5 or push\$5 or motion or move\$4 or moving or move or moved or mover or speed\$5 or velocity\$5 or active or dynamic\$6) near3 (fluid\$6 or liq or liquid or coolant)	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 10:03
L88	2245	L35 and active\$2 near3 (fluid\$6 or liq or liquid or coolant or cooling or cool or remov\$6)	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 10:03
L89	588	L35 and active\$2 near3 (system)	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 10:04
L90	1538	L35 and seal\$5 near3 (system)	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 10:04
L91	160	L35 and hermetic\$6 near3 (system)	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 10:04
L92	2413	L35 and hermetic\$6 near3 seal\$5	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 10:04

EAST Search History

L93	944	L35 and hermetic\$6 near3 (liq or	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 10:05
L94	46021	L66 L67 L68 L69 L70 L71 L72 L75 L76 L77 L78 L79 L80 L81 L82 L83 L84 L85 L86 L87 L88 L89 L90 L91 L92 L93	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 10:06
L95	49	L94 and resistor near4 (bubb\$5 or puls\$7 or vibrat\$6 or resona\$7 or boil\$6 or disturb\$4 or eddy or edd\$2 or flatus or flat or oscillat\$7 or mix\$6 or remix\$6 or convect\$7 or ripp\$5)	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 10:08
L96	185	L94 and electr\$5 near4 (bubb\$5 or puls\$7 or vibrat\$6 or resona\$7 or boil\$6 or disturb\$4 or eddy or edd\$2 or flatus or flat or oscillat\$7 or mix\$6 or remix\$6 or convect\$7 or ripp\$5)	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 10:08
L97	9	L94 and means near4 (bubb\$5 or puls\$7 or vibrat\$6 or resona\$7 or boil\$6 or disturb\$4 or eddy or edd\$2 or flatus or flat or oscillat\$7 or mix\$6 or remix\$6 or convect\$7 or ripp\$5)	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 10:08
L98	3051	L94 and (liq or liquid or fluid or flow or flowing or flowed) near4 (bubb\$5 or puls\$7 or vibrat\$6 or resona\$7 or boil\$6 or disturb\$4 or eddy or edd\$2 or flatus or flat or oscillat\$7 or mix\$6 or remix\$6 or convect\$7 or ripp\$5)	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 10:09
L99	207	L94 and (oil) near4 (bubb\$5 or puls\$7 or vibrat\$6 or resona\$7 or boil\$6 or disturb\$4 or eddy or edd\$2 or flatus or flat or oscillat\$7 or mix\$6 or remix\$6 or convect\$7 or ripp\$5)	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 10:09
L100	1133	L94 and (water or h2o or aq or aqueous) near4 (bubb\$5 or puls\$7 or vibrat\$6 or resona\$7 or boil\$6 or disturb\$4 or eddy or edd\$2 or flatus or flat or oscillat\$7 or mix\$6 or remix\$6 or convect\$7 or ripp\$5)	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 10:09
L101	1623	L94 and (gas\$6 or vapor\$3 or vapour\$9) near4 (bubb\$5 or puls\$7 or vibrat\$6 or resona\$7 or boil\$6 or disturb\$4 or eddy or edd\$2 or flatus or flat or oscillat\$7 or mix\$6 or remix\$6 or convect\$7 or ripp\$5)	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 10:10

EAST Search History

L113	1408	L94 and (si or silicon or semiconductor\$5 or microcircuit\$5 or circuit\$5 or ic or pc or pcb or computer or microcomputer or server or laptop or (lap adj) top) or server or blade or motherboard or (mother adj board) or socket\$5 or cpu or microprocessor or cpu or processor) near3 package\$6	EPO; JPO; DERWENT; IBM_TDB	OR		2008/12/08 10:18	
L114	324	L94 and pcb	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 10:18	
L115	2173	L94 and board	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 10:18	
L116	216	L94 and pc	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 10:19	
L117	4111	L94 and chip	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 10:19	
L118	39	L94 and microchip	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 10:19	
L119	60	L94 and csp	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 10:19	
L120	56	L94 and mcm	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 10:20	
L121	9	L94 and mcp	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 10:20	
L122	73	L94 and multichip	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 10:20	
L123	18	L94 and microtech\$6	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 10:21	
L124	19	L94 and microtech\$9	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 10:21	
L125	29	L94 and microtech\$9	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 10:21	
L126	45	L94 and microelectromech\$9	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 10:21	

EAST Search History

L127	80	L94 and electromech\$9	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 10:22
L128	1081	L94 and monolith\$7	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 10:22
L129	0	L94 and unibody	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 10:22
L130	3557	L94 and body	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 10:22
L131	754	L94 and piece	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 10:23
L132	239	L95 L96 L97	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 10:23
L133	4833	L98 L99 L100 L101 L102	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 10:23
L134	802	L103 L104 L105 L106	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 10:24
L135	3764	L107 L108 L109 L110	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 10:24
L136	10614	L111 L112 L113 L114 L115 L116 L117 L118 L119 L120 L121 L122	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 10:25
L137	166	L123 L124 L125 L126 L127	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 10:26
L138	5225	L128 L129 L130 L131	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 10:26
L139	0	L132 and L133 and L134 and L135 and L136 and L137 and L138	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 10:27
L140	0	L132 and (L133 and L134 and L135 and L136 and L137 and L138)	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 10:27
L141	0	connect\$8 and (L133 and L134 and L135 and L136 and L137 and L138)	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 10:27

EAST Search History

L142	213	connect\$8 and (si or silicon or semiconduct\$6) adj (chip or microchip or die or dies or dice or package\$6 or substrate or plate or layer or film)	EPO; JPO; IBM_TDB DERVENT;	ON		2008/12/08 10:29
L143	429	connect\$8 and (L1 or L2 or L3 or L4)	EPO; JPO; IBM_TDB DERVENT;	OR	ON	2008/12/08 10:29
L144	0	resistor\$6 and (L133 and L134 and L135 and L136 and L138)	EPO; JPO; IBM_TDB DERVENT;	OR	ON	2008/12/08 10:30
L145	0	connect\$7 and (L133 and L134 and L135 and L136 and L137 and L138)	EPO; JPO; IBM_TDB DERVENT;	OR	ON	2008/12/08 10:30
L146	303	connect\$7 and resistor\$9	EPO; JPO; IBM_TDB DERVENT;	OR	ON	2008/12/08 10:31
L147	2794	resistor\$6 and (L132 or L133 or L134 or L135 or L136 or L137 or L138)	EPO; JPO; IBM_TDB DERVENT;	OR	ON	2008/12/08 10:31
L148	511	connect\$6 and (L132 or L133 or L134 or L135 or L136 or L137 or L138)	EPO; JPO; IBM_TDB DERVENT;	OR	ON	2008/12/08 10:32
L149	419	vibrat\$7 and (L132 or L133 or L134 or L135 or L136 or L137 or L138)	EPO; JPO; IBM_TDB DERVENT;	OR	ON	2008/12/08 10:32
L150	444	puls\$8 and (L132 or L133 or L134 or L135 or L136 or L137 or L138)	EPO; JPO; IBM_TDB DERVENT;	OR	ON	2008/12/08 10:32
L151	364	oscilla\$9 and (L132 or L133 or L134 or L135 or L136 or L137 or L138)	EPO; JPO; IBM_TDB DERVENT;	OR	ON	2008/12/08 10:32
L152	197	resona\$8 and (L132 or L133 or L134 or L135 or L136 or L137 or L138)	EPO; JPO; IBM_TDB DERVENT;	OR	ON	2008/12/08 10:33
L153	9	L147 and L148	EPO; JPO; IBM_TDB DERVENT;	OR	ON	2008/12/08 10:33
L154	153	(L147 or L148) and (L149 L150 L151 L152)	EPO; JPO; IBM_TDB DERVENT;	OR	ON	2008/12/08 10:34
L155	27	(L103 or L104) and L105	EPO; JPO; IBM_TDB DERVENT;	OR	ON	2008/12/08 10:34

EAST Search History

L156	4235	L91 or L96 or L97 or L99 or L84 or L85 or L103 or L104 or L106 or L116 or L118 or L119 or L120 or L121 or L122 or L123 or L124 or L125 or L126 or L129 or L132 or L137 or L142 or L143 or L146 or L148 or L149 or L150 or L151 or L152 or L153 or L154 or L155	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 10:38
L157	102	monolith\$7 and L156	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 10:38
L158	0	unibody and L156	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 10:39
L159	0	uni adj body and L156	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 10:39
L160	3	integrated adj structur\$4 and L156	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 10:39
L161	1	integrated adj packag\$6 and L156	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 10:40
L162	39	(compact\$6 or single or one or unit\$4 or together) near2 packag\$6 and L156	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 10:40
L163	43	(lightweight\$4 or light or weight\$4 or dimension\$5 or size\$5 or footprint or (foot adj print) near2 packag\$6 and L156	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 10:41
L164	217	L153 L155 L157 L160 L161 L162 L163	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 10:42
L165	56163	resistor near3 (oscillat\$5 or voltage or potential or vibrat\$5 or resonanc\$7 or oscillat\$7 or puls\$6 or electric\$6)	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 10:44
L166	80	l165 and connect\$7	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 10:44
L167	89	l165 and (liq or liquid or liquif\$6 or fluid or oil) near3 (bubbli\$5 or boil\$6 ore eddy or eddiz or roll\$6 or disturb\$7 or vibrat\$6 or mix\$8)	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 10:45
L168	383	L164 or L166 or L167	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/08 10:46

EAST Search History

L169	9487	L35 and connect\$8	DERWENT; IBM_TDB	OR	ON	2008/12/08 10:46
L170	13789	L35 and resistor	DERWENT; IBM_TDB	OR	ON	2008/12/08 10:47
L171	238	(L169 or L170) and (sil or silicon) near2 (heat\$6 or material or hot\$5 or thermal\$2 or plate or cool\$7 or cold\$6 or temp or temperature)	DERWENT; IBM_TDB	OR	ON	2008/12/08 10:48
L172	713	(L169 or L170) and (sil or silicon or semiconduct\$6 chip or microchip or die or dies or dice or mcm or mcp or multichip or csp or chipscal\$5 or cpu or microprocessor or processor or unit or processing) near4 (hous\$6 or enclos\$6 or cavity or shield\$5 or shield\$5 or barrier or shel\$5)	DERWENT; IBM_TDB	OR	ON	2008/12/08 10:51
L173	0	(L169 or L170) and (microprocessing) near4 (hous\$6 or enclos\$6 or cavity or protect\$6 or shield\$5 or barrier or shell\$5)	DERWENT; IBM_TDB	OR	ON	2008/12/08 10:51
L174	19	(L169 or L170) and (sil or silicon or semiconduct\$6 chip or microchip or die or dies or dice or mcm or mcp or multichip or csp or chipscal\$5 or cpu or microprocessor or processor or unit or processing or microprocessing) near4 (socket\$5)	DERWENT; IBM_TDB	OR	ON	2008/12/08 10:52
L175	18	L171 and L172	DERWENT; IBM_TDB	OR	ON	2008/12/08 10:52
L176	718	(hoplate or (hot adj plate) or resistor or ((electroresist\$5 or resist\$5) near2 (heat\$6 or hot))) and (L171 or L172)	DERWENT; IBM_TDB	OR	ON	2008/12/08 10:55
L177	10	vibrat\$7 and (L171 or L172)	DERWENT; IBM_TDB	OR	ON	2008/12/08 10:55
L178	6	bubb\$5 and (L171 or L172)	DERWENT; IBM_TDB	OR	ON	2008/12/08 10:55
L179	1144	L168 L171 L174 L176 L177 L178	DERWENT; IBM_TDB	OR	ON	2008/12/08 10:56
L180	10	L179 and L2	DERWENT; IBM_TDB	OR	ON	2008/12/08 10:57

FAST Search History

L181	5	L165 and L2	EPO; JPO; DERVENT; IBM_TDB	OR	ON	2008/12/08 11:05
L182	191	L156 and L2	EPO; JPO; DERVENT; IBM_TDB	OR	ON	2008/12/08 11:07
L183	1050	(L156 or L94 or L27 or L28 or local\$7) and L2	EPO; JPO; DERVENT; IBM_TDB	OR	ON	2008/12/08 11:08
L184	89	(L182 or L183) and (vibrat\$6 or puls\$6 or bubbli\$7 or cavitat\$6 or microcavitat\$7 or sonicat\$6 or boil\$7 or flatus or resonat\$7 or microbubbli\$6 or flat or flatus\$2) near\$5 (liq or liquid or oil or fluid or flowing or flow or flows or flowed or microflow\$6 or working or operating or pump\$6 or mover or driver or driving or driven or drive)	EPO; JPO; DERVENT; IBM_TDB	OR	ON	2008/12/08 11:11
L185	0	(L182 or L183) and (vibrat\$6 or puls\$6 or bubbli\$7 or cavitat\$6 or microcavitat\$7 or sonicat\$6 or boil\$7 or flatus or resonat\$7 or microbubbli\$6 or flat or flatus\$2) near\$5 means	EPO; JPO; DERVENT; IBM_TDB	OR	ON	2008/12/08 11:12
L186	32	L184 and ("1990" "1991" "1992" "1993" "1994" "1995" "1996" "1997" "1998" "1999" "2000" "2001" "2002").py.	EPO; JPO; DERVENT; IBM_TDB	OR	ON	2008/12/08 11:13
L187	89	L184 and (L2 or L3 or L4)	EPO; JPO; DERVENT; IBM_TDB	OR	ON	2008/12/08 11:13
L188	57	L187 not L186	EPO; JPO; DERVENT; IBM_TDB	OR	ON	2008/12/08 11:13
L189	11	L186 and (seal\$6 or hermetic\$7 or clos\$4 near\$2 (system or loop\$5 or circuit\$5 or path\$5)))	EPO; JPO; DERVENT; IBM_TDB	OR	ON	2008/12/08 11:19
L190	13	L2 and monolith\$8	EPO; JPO; DERVENT; IBM_TDB	OR	ON	2008/12/08 11:28
L191	136	(L3 or L4 or L5) and monolith\$6	EPO; JPO; DERVENT; IBM_TDB	OR	ON	2008/12/08 11:32
L192	127	L191 not L190	EPO; JPO; DERVENT; IBM_TDB	OR	ON	2008/12/08 11:33

EAST Search History

L193	0	L192 and nucleat\$7	EPO; JPO; DERVENT; IBM, TDB	OR	ON	2008/12/08 11:33
L194	0	L192 and induc\$7 near\$ (boil\$7 or bubb\$6 or liq or liquid or fluid)	EPO; JPO; DERVENT; IBM, TDB	OR	ON	2008/12/08 11:33
L195	13	L192 and (boil\$7 or bubb\$6 or liq or liquid or fluid)	EPO; JPO; DERVENT; IBM, TDB	OR	ON	2008/12/08 11:33
L196	12	L2 and nucleat\$6	EPO; JPO; DERVENT; IBM, TDB	OR	ON	2008/12/08 11:39
L197	8	L35 and monolith\$6 and nucleat\$7	EPO; JPO; DERVENT; IBM, TDB	OR	ON	2008/12/08 11:44
L198	17	monolith\$7 near\$ (chip or microchip) near\$ (heat\$5 or cold\$6 or hot\$7 or cool\$7)	EPO; JPO; DERVENT; IBM, TDB	OR	ON	2008/12/08 11:48
L199	2	"04213863"	EPO; JPO; DERVENT; IBM, TDB	OR	ON	2008/12/08 11:50

EAST Search History

#	Ref	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	4	"2002039280"	EPO; JPO; IBM_TDB	OR	ON	2008/12/08 13:31
L2	1	"20020039280"	EPO; JPO; IBM_TDB	OR	ON	2008/12/08 13:31
L3	1	"5978216"	EPO; JPO; IBM_TDB	OR	ON	2008/12/08 13:33
L4	5	"6631077" or "20030192674" or (ep adj "1607707") or (wo adj "2007101320")	EPO; JPO; IBM_TDB	OR	ON	2008/12/08 13:42
L5	4	jp adj ("2000130341" or "2001035980")	EPO; JPO; IBM_TDB	OR	ON	2008/12/08 13:43
L6	1	wo adj "2002052644"	EPO; JPO; IBM_TDB	OR	ON	2008/12/08 13:43
L7	16	L1 L2 L3 L4 L5 L6	EPO; JPO; IBM_TDB	OR	ON	2008/12/08 13:43
L8	1	2006-040549,NRAN.	DERWENT	OR	OFF	2008/12/08 13:50
L9	1	2007-752404,NRAN.	DERWENT	OR	OFF	2008/12/08 13:51
L10	1	"6679315"	EPO; JPO; IBM_TDB	OR	ON	2008/12/08 13:51
L11	50	Iversen and Whitaker	US-PG-PUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2008/12/08 13:55
L12	0	L11 and monolith\$7	US-PG-PUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2008/12/08 13:56
L13	9	L11 and compact\$2	US-PG-PUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2008/12/08 13:56
L14	28	"4712609" or "4989070"	US-PG-PUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2008/12/08 13:58

EAST Search History

L15		12	L14 and resist\$7 near9 (coolant or refrigerant or cool\$6 or heat\$6 or hot\$7 or cold\$6 or thermal\$2)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR		2008/12/08 13:59	
L16		3	L14 and motion near9 (coolant or refrigerant or cool\$6 or heat\$6 or hot\$7 or cold\$6 or thermal\$2)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2008/12/08 14:00	
L17		0	L14 and moti\$6 near9 (coolant or refrigerant or cool\$6 or heat\$6 or hot\$7 or cold\$6 or thermal\$2)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2008/12/08 14:00	
L18		9	L14 and mov\$5 near9 (coolant or refrigerant or cool\$6 or heat\$6 or hot\$7 or cold\$6 or thermal\$2)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2008/12/08 14:00	
L19		25	L14 and flow\$5 near9 (coolant or refrigerant or cool\$6 or heat\$6 or hot\$7 or cold\$6 or thermal\$2)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2008/12/08 14:00	
L20		12	L14 and nuclea\$7	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2008/12/08 14:01	
L21		14	L14 and compact\$2	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2008/12/08 14:01	
L22		0	L14 and monolith\$5	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2008/12/08 14:01	
L23		0	L14 and (si or silicon) near2 (hotplate or plate or slab)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2008/12/08 14:01	
L24		4	L14 and (si or silicon) near2 substrate	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2008/12/08 14:01	

EAST Search History

L25		26	L15 L16 L18 L19 L20 L21 L24	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR		ON	2008/12/08 14:02
L26		0	(L11 or L14) and compact\$2 near\$3 integrate\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON		2008/12/08 14:18
L27		0	(L11 or L14) and compact\$2 near\$3 monolith\$7	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON		2008/12/08 14:18
L28		0	(L11 or L14) and integrate\$6 near\$3 monolith\$7	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON		2008/12/08 14:18
L29		0	(L11 or L14) and monolith\$7,ab, clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON		2008/12/08 14:19
L30		5	(L11 or L14) and closed,ab,clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON		2008/12/08 14:19
L32		0	"4928755" and helium adj gas	EPO; JPO; DERWENT; IBM_TDB	OR	OFF		2008/12/08 14:24
L33		1	"4928755" and helium adj gas	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF		2008/12/08 14:24
L34		60	"5427174"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF		2008/12/08 14:27
L35		34	"5427174" and boil\$5 near\$4 cool\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF		2008/12/08 14:27

EAST Search History

L46	0	L39 and "2001".pry.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/08 14:29
L47	0	L39 and "2002".pry.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/08 14:30
L48	0	L39 and "1999".pry.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/08 14:30
L49	0	L39 and "1998".pry.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/12/08 14:30